

(12) **UK Patent Application** (19) **GB** (11) **2 205 433** (13) **A**  
(43) Application published 7 Dec 1988

(21) Application No 8800854

(22) Date of filing 14 Jan 1988

(30) Priority data

(31) 8712850

(32) 2 Jun 1987

(33) GB

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(51) INT CL<sup>4</sup>

G10K 1/063

(52) Domestic classification (Edition J):

G5J CAW

G4F 14

U1S 1714 1944 G4F G5J

(56) Documents cited

None

(58) Field of search

G5J

G4F

Selected US specifications from IPC sub-classes

G08B G10H G10K

(54) Doorbell operated by radio or ultrasonic waves

(57) Battery operated transmitter 11 of a doorbell operated by radio or ultrasonic waves, is fixed on the outside of a premises. When the transmitter is operated by a person using pushbutton 12, the transmitter raises a coded radio or ultrasonic signal 13.

This signal is picked by the receiver 14 which is placed at a convenient location inside the premises. This receiver 14 raises an alerting sound signal 15 to invite attention.

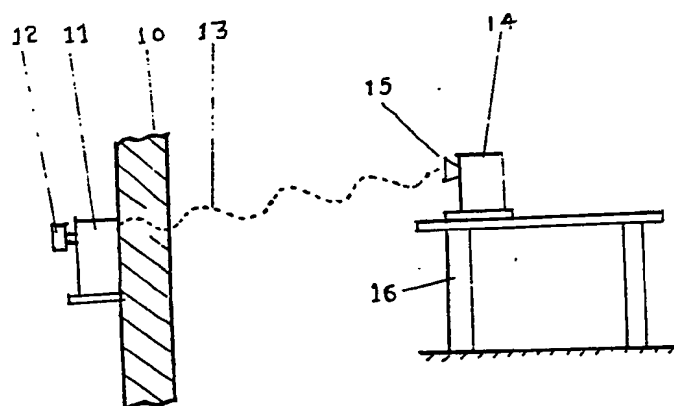


Fig 1

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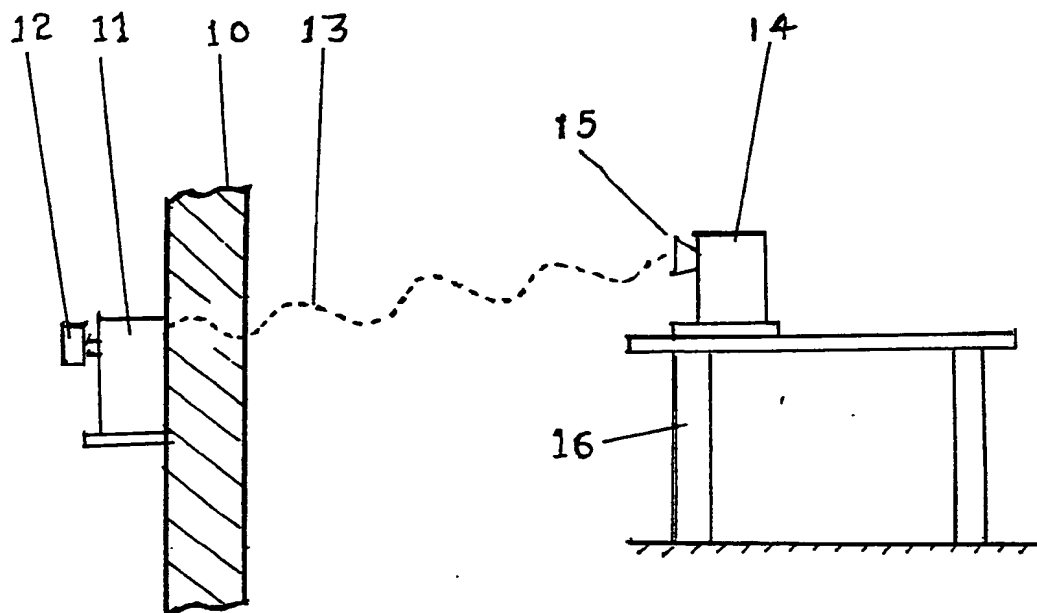


Fig 1

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## DOORBELL OPERATED BY RADIO OR ULTRA SONIC WAVES

0 At present doorbells are mainly of two types: one is the mechani-  
-cally operated type with a direct mechanical link between the  
operating push or pull button and the bell itself. The  
other common type is the electrically operated one; which is conn-  
-ected to the button by means of electrically conducting pair of  
5 wires.

The invention described herein eliminates the need for any mech-  
-anical or electrical connection between the bell operating  
button and the bell itself.

This new technique will eliminate the need to physically connect  
10 the bell operating button and the actual bell. Several possible  
techniques can be used to make this connection. Two of which are  
radio waves and ultrasonic waves.

The advantage of these new techniques is that installation will  
be very much simpler since no electrical wiring or mechanical  
15 links are required.

A specific non limiting embodiment of the invention using the  
radio technique will now be described by way of example with  
reference to the accompanying drawing in which-

Fig.1 shows in outline a transmitter with a pushbutton (elec-  
20 -trical, electronic or mechanical) fitted on the outside of the  
premises and a receiver raising sound signal inside the premi-  
-ses.

Referring to the drawing, the door-bell unit comprises a battery  
powered transmitter (11), fitted on the outside of the wall (10),  
25 of the premises, the transmitter having an electrical, electronic  
or mechanical pushbutton (12).

Battery powered receiver (14), is placed inside the premises (16)  
at any convenient location. The receiver (14) has a bell unit (15)  
When the pushbutton (electrical, electronic or mechanical) (12), is  
30 operated by a person, the battery powered transmitter (11) opera-  
-tes a radio signal (13) at set frequency. The signal (13) is  
picked up by the battery powered receiver (14) which in turn  
operates the bell (15)

~~The signal (13) is picked up by the battery powered receiver (14)~~  
35 ~~which in turn operates the bell (15).~~ The signal (13) raised by  
the transmitter (11) is coded so that the receiver (14) in the  
premises (16) alone responds to it and cross calling of a similar  
38 bell unit in the vicinity does not take place.

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## CLAIMS

- 1 A doorbell unit operated by radio waves, the unit comprising a battery powered transmitter and a separate radio receiver located inside a premises, raising a sound signal when the transmitter is operated by an electrical, electronic or mechanical pushbutton.
- 2 A doorbell unit as claimed in claim 1 wherein the radio receiver is powered by batteries.
- 3 A doorbell unit as claimed in claim 1 or claim 2 wherein the radio signal raised by the transmitter carries a receiver code to avoid cross calling between similar units in the vicinity.
- 4 A doorbell unit operated by radio waves as described with reference to Fig.1
- 5 A doorbell unit operated by sound waves, the unit comprising a battery powered transmitter outside the building and a separate receiver inside the building which activates the bell, when it receives a predetermined sequence of sound waves which have emitted from the transmitter; which in turn having been activated by the operation of an electrical electronic or mechanical pushbutton.
- 6 A doorbell unit as claimed in claim 5 wherein the sound wave receiver is powered by batteries.
- 7 A doorbell unit as claimed in claim 5 or claim 6 wherein the sound signal raised by the transmitter carries a receiver code to avoid cross calling between similar units in the vicinity.
- 8 A doorbell unit operated by sound waves as described with reference to Fig.1

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